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In the Claims:

1. (CURRENTLY AMENDED) A prosthetic device for use with a hip replacement prosthesis that includes an acetabular cup assembly to be fastened to a patient's pelvis and a femoral stem to be fastened to the patient's femur, where the femoral stem includes a ball component at its proximal end received within the acetabular cup assembly to form a ball joint type coupling, the prosthetic device comprising:

an acetabular liner having mating features to releasable engage corresponding mating features of an acetabular cup permanently mounted to the patient's pelvis; and

a semiannular augment to be mounted approximate to a rim of an acetabular eup assembly liner of a hip replacement prosthesis, wherein the semiannular augment assists in improving stability of a ball joint type coupling by increasing the height of a portion of the rim of the acetabular eup liner, at least temporarily, between the acetabular eup assembly liner and a femoral stem of the hip replacement prosthesis while allowing rotational and angular movement between the acetabular cup assembly and the femoral stem;

the semiannular augment being formed from an augment material selected from the group consisting comprising at least one of a biologic material, a biologically absorbable material, and a combination of biologic and biologically absorbable materials; and

wherein the augment material is supplemented with <u>at least one of</u> an agent to promote the formation of scar tissue, <u>a clotting agent</u>, and an antibacterial agent; and wherein the augment material does not form scar tissue.

- 2. (ORIGINAL) The prosthetic device of claim 1, further comprising at least one fastener for mounting the semiannular augment to the acetabular cup assembly, the fastener being formed from a fastener material selected from the group consisting of a biologic material, a biologically absorbable material, and a combination of biologic and biologically absorbable materials.
- 3. (CANCELLED)

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4. (ORIGINAL) The prosthetic device of claim 2, wherein the fastener comprises at least one of:

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a screw;
a snap;
a clip;
a keyway;
a dowel; and
a rivet.
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5. (ORIGINAL) The prosthetic device of claim 1, wherein the augment material includes at least one, or an equivalent, of:

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extra cellular matrices (ECMs);
poliglecaprone 25;
polydioxanone;
surgical gut suture (SGS);
gut;
polyglactin 910;
human autograft tendon material;
collagen fiber;
poly-L-lactic acid (PLLA);
polylactic acid (PLA);
polylactides (Pla);
racemic form of polylactide (D,L-Pla);
poly(L-lactide-co-D,L-lactide);
polyglycolides (PGa);
polyglycolic acid (PGA);
polycaprolactone (PCL);
polydioxanone (PDS);
polyhydroxyacids; and
resorbable plate material.
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6. (ORIGINAL) The prosthetic device of claim 5, wherein the extra cellular matrices (ECMs) include at least one of:

porcine small intestine submucosa (SIS); xenogeneic small intestine submucosa (xSIS); urinary bladder submucosa (UBS); laminated intestinal submucosa; and glutaraldehyde-treated bovine pericardium (GLBP).

7-13. (CANCELLED)

- 14. (ORIGINAL) The prosthetic device of claim 2, wherein the semiannular augment includes at least one integrated fastener.
- 15. (ORIGINAL) The prosthetic device of claim 14, wherein the integrated fastener includes a snap-on retention member enabling snap-on-type mounting of the semiannular augment to the acetabular cup assembly.

16-26. (CANCELLED)

27. (CURRENTLY AMENDED) A hip prosthesis comprising:

an acetabular cup assembly to be fastened to a patient's pelvis, the acetabular cup assembly including an acetabular liner having mating features to releasable engage corresponding mating features of an acetabular cup permanently mounted to the patient's pelvis;

a femoral stem to be fastened to the patient's femur, the femoral stem including a ball component at its proximal end received within the <u>acetabular liner</u> acetabular cup assembly to form a ball joint type coupling; and

a semiannular augment to be mounted to a distal end of the <u>acetabular liner</u> acetabular oup assembly, adjacent to the ball component, wherein the semiannular augment assists in stabilizing the ball joint type coupling between the <u>acetabular liner</u> acetabular oup assembly and the femoral stem by temporarily increasing the height of a portion of the rim of the <u>acetabular liner</u> acetabular cup, while enabling rotational and

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angular movement between the <u>acetabular liner</u> acetabular cup assembly and the femoral stem;

the semiannular augment being formed from an augment material selected from the group consisting comprising at least one of a biologic material, a biologically absorbable material, and a combination of biologic and biologically absorbable materials; and

wherein the semiannular augment includes at least one integrated fastener; and wherein the augment material does not form scar tissue.

- 28. (PREVIOUSLY AMENDED) The hip prosthesis of claim 27, wherein the fastener is formed from a fastener material selected from the group consisting of a biologic material, a biologically absorbable material, and a combination of biologic and biologically absorbable materials.
- 29. (ORIGINAL) The hip prosthesis of claim 28, wherein the fastener material includes at least one, or an equivalent, of:

a poly-L-lactic acid material; and collagen.

- 30. (ORIGINAL) The hip prosthesis of claim 28, wherein the fastener comprises at least one of:
 - a screw;
 - a snap;
 - a clip;
 - a keyway;
 - a dowel; and
 - a rivet.
- 31. (ORIGINAL) The hip prosthesis of claim 27, wherein the augment material includes at least one, or an equivalent, of:

extra cellular matrices (ECMs); poliglecaprone 25;

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polydioxanone;
surgical gut suture (SGS);
gut;
polyglactin 910;
human autograft tendon material;
collagen fiber;
poly-L-lactic acid (PLLA);
polylactic acid (PLA);
polylactides (Pla);
racemic form of polylactide (D,L-Pla);
poly(L-lactide-co-D,L-lactide);
polyglycolides (PGa);
polyglycolic acid (PGA);
polycaprolactone (PCL);
polydioxanone (PDS);
polyhydroxyacids; and
resorbable plate material.
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32. (ORIGINAL) The hip prosthesis of claim 31, wherein the extra cellular matrices (ECMs) include at least one of:

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porcine small intestine submucosa (SIS);
xenogeneic small intestine submucosa (xSIS);
urinary bladder submucosa (UBS);
laminated intestinal submucosa; and
glutaraldehyde-tréated bovine pericardium (GLBP).
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33-36. (CANCELLED)

37. (ORIGINAL) The hip prosthesis of claim 27, wherein the augment material is supplemented with an agent to promote the formation of scar tissue.

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38. (WITHDRAWN) The hip prosthesis of claim 27, wherein the augment material is supplemented with a clotting agent.

39. (WITHDRAWN) The hip prosthesis of claim 27, wherein the augment material is supplemented with an antibacterial agent.

40-108. (CANCELLED)

109. (NEW) A prosthetic device for use with a hip replacement prosthesis, the prosthetic device comprising:

an acetabular liner for receiving a femoral head component of a femoral prosthesis, the acetabular liner including mating features to releasable engage corresponding mating features of an acetabular cup permanently mounted to an acetabulum of a subject; and

a plurality of semiannular augments for mounting to a rim of the acetabular liner, wherein the plurality of semiannular augments assists in improving stability of a ball joint type coupling by increasing a height of a portion of the rim of the acetabular liner, at least temporarily, between the acetabular liner and a femoral stem of the femoral prosthesis while allowing rotational and angular movement between the acetabular liner and the femoral prosthesis;

the plurality of semiannular augments being formed from an augment material comprising at least one of a biologic material, a biologically absorbable material, and a combination of biologic and biologically absorbable materials.

110. (NEW) A prosthetic device for use with a hip replacement prosthesis, the prosthetic device comprising:

an acetabular liner for receiving a femoral head component of a femoral prosthesis, the acetabular liner including at least one circumferentially oriented recess to releasable engage a corresponding projection of an acetabular cup permanently mounted to an acetabulum of a subject; and

a semiannular augment for mounting to a rim of the acetabular liner, wherein the semiannular augment assists in improving stability of a ball joint type coupling by

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increasing a height of a portion of the rim of the acetabular liner, at least temporarily, between the acetabular liner and a femoral stem of the femoral prosthesis while allowing rotational and angular movement between the acetabular liner and the femoral prosthesis;

the semiannular augment being formed from an augment material comprising at least one of a biologic material, a biologically absorbable material, and a combination of biologic and biologically absorbable materials.